

Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application.

1. (Currently Amended) A latch circuit, comprising:

a bistable pair of transistors connected between a reset switch and a first supply voltage, and having a first port for receiving a first current signal and producing a first output voltage, and a second port for receiving a second current signal and producing a second output voltage; and

a vertical latch connected between said first supply voltage and a second supply voltage, and connected to said first port, said vertical latch having a transistor connected to said first port so that, when said transistor is turned on, a current flows from said second supply voltage through said transistor to said first ~~port~~ port;

wherein said reset switch is configured to couple said first port directly to said second port and said bistable pair of transistors are connected directly to said first supply voltage.

2. (Original) The latch circuit of claim 1, wherein said transistor is a MOSFET.

3. (Original) The latch circuit of claim 1, wherein said reset switch is a microelectromechanical reset switch.

4. (Previously Presented) The latch circuit of claim 1, wherein said vertical latch is for decreasing the time necessary for said first port to reach a steady state voltage in response to said first current signal received.
5. (Original) The latch circuit of claim 1, further comprising a vertical latch reset switch connected to said vertical latch.
6. (Original) The latch circuit of claim 1, further comprising a second vertical latch connected between said first supply voltage and said second supply voltage, and connected to said second port.

7-20. (Canceled)